

Appl. No. : 10/067,550
Filed : February 5, 2002

AMENDMENTS TO THE CLAIMS

1. (Original) A method of extracting audio for indexing of video, comprising:
receiving video information having embedded audio information and associated time codes;
capturing the embedded audio information in the video information;
extracting a plurality of audio metadata tracks from the audio information, each audio metadata track having selected ones of the time codes indicative at least of start and stop times for the audio metadata track;
encoding the video information; and
accessing the encoded video information with the selected time codes of one of the audio metadata tracks.
2. (Original) The method of Claim 1, wherein the video information is received from an analog source.
3. (Original) The method of Claim 2, wherein the analog source is a videotape deck.
4. (Original) The method of Claim 2, wherein the analog source is a live satellite feed.
5. (Original) The method of Claim 1, wherein the video information is received from a digital source.
6. (Currently amended) The method of Claim 1, wherein the capturing includes digitizing with an audio digitization ~~device~~s devices.

Appl. No. : **10/067,550**
Filed : **February 5, 2002**

7. (Original) The method of Claim 1, wherein the plurality of audio metadata tracks includes at least one of: keywords, speech-to-text transcription, speaker identification and audio class.

8. (Original) The method of Claim 1, wherein the time codes comprise SMPTE codes.

9. (Original) The method of Claim 1, wherein the encoding comprises encoding with an MPEG format.

10. (Original) An audio engine for extracting metadata tracks, comprising:
an audio signal switch receiving an audio signal;
an audio classification component controlling the audio signal switch according to whether the audio signal is classified as speech; and
a plurality of audio metadata track extraction components in data communication with the output of the switch, wherein each audio metadata track extraction component provides an audio metadata track associated with speech.

11. (Original) The audio engine of Claim 10, additionally comprising:
an audio capture component for capturing and digitizing an analog audio source; and
an audio signal normalization component for normalizing the digitized audio prior to processing.

12. (Original) The audio engine of Claim 10, wherein the audio metadata tracks include at least one of: keywords, speech-to-text transcription and speaker identification.

13. (Original) The audio engine of Claim 10, wherein the audio classification component additionally classifies at least silence and music.

Appl. No. : **10/067,550**
Filed : **February 5, 2002**

14. (Original) The audio engine of Claim 10, wherein the audio metadata track extraction components receive data from a customizable dictionary.

15. (Original) The audio engine of Claim 10, wherein the audio signal is received from a real-time source.

16. (Original) The audio engine of Claim 10, wherein the audio signal is received from a digital source.

17. (Original) The audio engine of Claim 10, wherein the audio signal is received from a digital camcorder.

18. (Original) An audio engine for extracting metadata tracks, comprising:
an audio signal switch receiving an audio signal;
an audio classification component in data communication with and controlling the audio signal switch according to whether the audio signal is classified as speech; and
a plurality of audio metadata track extraction components in data communication with the output of the switch, wherein each audio metadata track extraction component provides an audio metadata track associated with speech.

19. (Original) The audio engine of Claim 18, wherein the audio metadata tracks include at least speaker identification.

20. (Original) The audio engine of Claim 18, wherein the audio classification component additionally classifies at least music.

21. (Original) The audio engine of Claim 18, wherein the audio metadata track extraction components receive data from a customizable dictionary of data associated with the extracted metadata tracks.

Appl. No. : **10/067,550**
Filed : **February 5, 2002**

22. (Original) The audio engine of Claim 18, wherein the audio signal is received from a remote real-time source.

23. (Original) The audio engine of Claim 18, wherein the audio signal is received from a remote digital source.

24. (Original) A method of extracting audio for indexing of video, comprising:
receiving video information having embedded audio information and associated time codes;
capturing the embedded audio information in the video information;
extracting a plurality of audio metadata tracks from the audio information, each audio metadata track being associated with selected ones of the time codes indicative at least of start and stop times for the audio metadata track;
encoding the video information; and
accessing the encoded video information with the selected time codes of one of the audio metadata tracks.

25. (Original) The method of Claim 24, wherein the video information is received from a remote digital source.

26. (Original) The method of Claim 24, wherein the plurality of audio metadata tracks includes at least one of: keywords, speech-to-text transcription, speaker identification and audio class.

27. (Original) An audio engine for extracting metadata tracks, comprising:
an audio signal switch receiving an audio signal;
an audio classification engine;
an audio class dictionary configured to provide dictionary data indicative of audio classes to the audio classification engine;

Appl. No. : **10/067,550**
Filed : **February 5, 2002**

an audio class profiler in data communication with the audio classification engine, wherein the audio class profiler receives the audio signal, and wherein the audio class profiler is further in data communication with and controls the audio signal switch according to whether the audio signal is classified as speech; and

a plurality of audio metadata track extraction components in data communication with the output of the switch, wherein each audio metadata track extraction component provides an audio metadata track associated with speech.

28. (Original) The audio engine of Claim 27, additionally comprising:
an audio capture component for capturing and digitizing an analog audio source;
and
an audio signal normalization component for normalizing the digitized audio prior to processing.

29. (Original) The audio engine of Claim 27, wherein the audio metadata tracks include at least one of: keywords, speech-to-text transcription and speaker identification.

30. (Original) The audio engine of Claim 27, wherein the audio class profiler additionally classifies at least silence and music.

31. (Original) The audio engine of Claim 27, wherein the audio metadata track extraction components receive data from a customizable dictionary of data associated with the extracted metadata tracks.

32. (Original) The audio engine of Claim 27, wherein the audio signal is received from a real-time source.

33. (Original) The audio engine of Claim 27, wherein the audio signal is received from a digital source.

Appl. No. : **10/067,550**
Filed : **February 5, 2002**

34. (Original) The audio engine of Claim 27, wherein the audio signal is received from a digital camcorder.

35. (Original) The audio engine of Claim 27, wherein the audio class dictionary is customizable.

36. (New) The method of Claim 1, wherein the audio metadata tracks comprise different types of audio metadata tracks.

37. (New) The audio engine of Claim 10, wherein each audio metadata track extraction component provides a different type of audio metadata track.

38. (New) The audio engine of Claim 18, wherein each audio metadata track extraction component provides a different type of audio metadata track.

39. (New) The method of Claim 24, wherein the audio metadata tracks comprise different types of audio metadata tracks.

40. (New) The audio engine of Claim 27, wherein each audio metadata track extraction component provides a different type of audio metadata track.